WHAT IS CLAIMED IS:

l		1.	A film recorder comprises:
2		a film	recording device configured to expose a frame of film media;
3		at least	t one flat panel display device configured to display at least one color
4	component im	age ass	ociated with an image; and
5		an alig	nment unit coupled to the film recording device and to the display
5	device, where	in the al	lignment unit is used to position an optical axis of the flat panel display
7	device with re	spect to	an optical axis of the film recording device such that the film recording
3	device can exp	ose the	e film media to the plurality of images.
l		2.	The film recorder of claim1 further comprising an external
2	illumination s	ource co	onfigured to provide illumination to the one flat panel display;
3		wherei	in the external illumination source is one of the group: LED, strobe
4	lamp, digital light projector.		
l		3.	The film recorder of claim 2
2		wherei	in the external illumination source comprises one or more digital light
3	projectors; and	d	
4		wherei	in the one or more digital light projectors project hex chromatic color
5	space images.		
l		4.	The film recorder of claim 2 further comprising:
2		a secon	nd flat panel display device configured to display a second color
3	component image associated with the image;		
4		a third	flat panel display device configured to display a third color component
5	image associa	ted with	the image; and
5		an opti	ical combiner coupled to the one flat panel display, to the second flat
7	panel display,	and to	the third flat panel display, the optical combiner configured to optically
3	combine the fi	irst colo	or component image, the second color component image, and the third
•	color compone	ent ima	ge to form a composite image.
l		5.	The film recorder of claim 4 wherein the film recording device exposes
2	the frame of fi	ilm med	lia to the composite image.

1		6.	The film recorder of claim 5 further comprising wherein the one flat	
2	panel display i	el display is monochromatic.		
1		7.	The film recorder of claim 4 further comprising a color filter coupled	
2	between the ex	cternal :	illumination source and the one flat panel display, wherein the color	
3	filter is a color	associ	ated with a color component of the one color component image.	
1		8.	The film recorder of claim 2	
2		wherei	in the one flat panel display is also configured to display the second	
3	color compone	component image associated with the image and to display the third color component		
4	image associated with the image.			
1		9.	The film recorder of claim 8 wherein the film recording device exposes	
2	the frame of fi	lm med	lia to the one color component image, then to the second color	
3	component im	age, an	d then to the third color component image.	
1		10.	The film recorder of claim 9 further comprising:	
2		a plura	ality of color filters configured to be disposed between the one flat panel	
3	display and the	e frame	of film media, wherein the plurality of color filters includes a first color	
4	filter, a second	l color :	filter, and a third color filter;	
5		where	in the film recording device exposes the frame of film media to the first	
6	color compone	ent ima	ge through the first color filter; and	
7		where	in the film recording device exposes the frame of film media to the	
8	second color c	ompon	ent image through the second color filter.	
1		11.	The film recorder of claim 1 wherein the one flat panel display is	
2	selected from	the gro	up: LCD, OLED display, plasma display, EL display.	
1		12.	A method for recording images onto film media comprises	
2		positio	oning at least one flat panel display with respect to an optical axis of a	
3	film recording	unit;		
4		display	ying at least one color component image associated with an image on the	
5	one flat panel	display	; and	
6		exposi	ng the film media to the one color component image on the one flat	
7	panel display.			

1		13.	The method of claim 12 further comprising providing illumination to
2	the one flat panel display with an external illumination source selected from the group: LED,		
3	strobe lamp, digital light projector.		
1		14.	The method of claim of claim 13
2		wherei	n the external illumination comprises more than one digital light
3	projector; and		
4		wherei	n the more than one digital light projector illuminate the one flat panel
5	display with images in the RGB and CMY color space.		
1		15.	The method of claim 14 further comprising
2		display	ring a second color component image associated with the image on the
3	one flat panel display;		
4		exposi	ng the film media to the second color component image on the one flat
5	panel display;		
6		display	ving a third color component image associated with the image on the
7	one flat panel display; and		
8		exposi	ng the film media to the third color component image on the one flat
9	panel display.		
1		16.	The method of claim 15
2			n before exposing the film media to the one color component image,
3	disposing a first color filter between the one flat panel display and the film media; and		
4		wherei	n before exposing the film media to the second color component image,
5	disposing a second color filter between the one flat panel display and the film media.		
1		17.	The method of claim 12, wherein the flat panel display is a display
2			OLED display, plasma display, EL display, silicon crystal display,
3	LCOS display	'.	
1		18.	The method of claim 14 further comprising:
2		_	ning a second flat panel display with respect to the optical axis of the
3	film recording	g unit;	
4		display	ying a second color component image associated with the image on the
5	second flat par	nel disp	lay;

6		exposi	ng the film media to the second color component image on the second	
7	flat panel display;			
8		positio	oning a third flat panel display with respect to the optical axis of the film	
9	recording unit	;	(
10		display	ying a third color component image associated with the image on the	
11	third flat panel	l displa	y; and	
12		exposi	ng the film media to the third color component image on the third flat	
13	panel display.			
1		19.	The method of claim 18 further comprising:	
2		combin	ning the first color component image, the second color component	
3	image and the	third co	olor component image to form a composite image; and	
4		exposi	ng the film media to the composite image comprising: exposing the film	
5	media to the fi	media to the first color component image on the one flat panel display, exposing the film		
6	media to the se	econd c	olor component image on the second flat panel display, and exposing	
7	the film media	to the	third color component image on the third flat panel display.	
1		20.	The method of claim 19 wherein the external illumination source	
2	configured to j	provide	illumination to the one flat panel display includes a color filter having a	
3	color appropri	ate for	the one color component image.	
1		21.	The method of claim 20 wherein the color is selected from the group:	
2	red, green, blue; cyan, yellow, magenta.			
1		22.	The method of claim 19 further comprising	
2		positio	ning the second flat panel display with respect to the optical axis of the	
3	film recording unit; and			
4		positio	ning the third flat panel display with respect to the optical axis of the	
5	film recording	unit;		
6		wherei	n combining the first color component image, the second color	
7	component image and the third color component image to form a composite image comprises			
8	using an optica	al comb	piner to form the composite image.	
1		23.	The method of claim 15 further comprising:	
2		makin	g a release print in response to the film media: and	

3		display	ying the release print to an audience.
1		24.	A method for forming a recorded film media comprises:
2		display	ying an image of one component color image of a image on a first digital
3	flat panel disp	lay;	
4		alignin	ng an optical axis of a film recorder to be substantially parallel to an
5	optical axis of	the firs	st digital flat panel display;
6	controlling a shutter of the film recorder to expose a frame of film media with		
7	the image of o	ne com	ponent color image of the image.
1		25.	The method of claim 24 wherein the first digital flat panel display is
2	selected from	the gro	up: LCD, OLED, plasma, EL, silicon crystal display, LCOS display.
1		26.	The method of claim 24 further comprising:
2		illumi	nating the first digital flat panel display with an external illumination
3	source,		
4		wherei	in the external illumination source one of the group: white LED, colored
5	LED, LED array, strobe lamp, array of strobe lamps, digital light projector.		
1		27.	The method of claim 26 further comprising:
2		display	ying an image of a second component color image of the image on a
3	second digital	flat par	nel display;
4		alignin	ng an optical axis of the first digital flat panel display with the optical
5	axis of the film recorder; and		
6		where	in controlling the shutter of the film recorder comprises controlling the
7	shutter of the film recorder to expose the frame of unexposed film media with the image of		
8	first component color image of the image and the second component color image of the		
9	image at the sa	ame tim	ie.
1		28.	The method of claim 27 wherein illuminating the first digital flat panel
2	display with a	n exteri	nal illumination source comprises providing a color filter appropriate for
3	the first component color image between the external illumination source and the first digital		
4	flat panel disp	lay.	
1		29.	The method of claim 28 wherein a color of the color filter is selected
2	from one of th	e group	o: red, green, blue; cyan, yellow, magenta.

1		30.	The method of claim 25 further comprising
2		display	ying an image of a second component color image of the image on the
3	first digital fla	t panel	display; and
4		contro	lling the shutter of the film recorder to expose the frame of film media
5	with the image	e of the	second component color image of the image.
1		31.	The method of claim 30 wherein before displaying the image of the
2	second compo	nent co	lor image, the method includes:
3		dispos	ing a color filter between the first digital flat panel display and the film
4	media;		
5		wherei	in a color for the color filter is appropriate for the second component
6	color image.		
1		32.	The method of claim 31 wherein the color is selected from one of the
2	group: red, gro	een, blu	e; cyan, yellow, magenta.
1		33.	The method of claim 26 wherein illuminating the first digital flat panel
2	display with the	he exter	mal illumination source comprises disposing a color filter between the
3	external illum	ination	source and the first digital flat panel display.
1		34.	The method of claim 26 wherein illuminating the first digital flat panel
2	display with the	he exter	nal illumination source comprises illuminating the first digital flat panel
3	display with a	first ill	umination source having a color appropriate for the first component
4	color image.		
1		35.	The method of claim 34 wherein the first illumination source
2	comprises red	LEDs.	